

ASC 320®

Case Study: 3007
Industry: Oil & Gas/Petrochemical
Part: Jaws Component to Screw Pipes Together
Material: High Strength Alloy
Diameter: 0.500"
Depth: 4.7" (Jobber)
Item: 390E05000A21M



The Challenge

A customer is manufacturing and maintaining equipment for the oilfield industry. The specific part being machined is a component of the jaws that screws pipe together on an oil rig and is being made out of high strength alloy. They are using a Mazak VMC with 1000 PSI coolant through the tool to produce their products.

Seeking to improve their production process, the customer wanted to reduce cycle time and decrease cost of production.

The Advantages

The ASC 320 reduced cycle time, which allowed the customer to increase both profits and shop capacity.

- Total cost savings = \$1,008.22 or 72.96%.
- Reduced cycle time by 83.2%

Previous Tooling

0.500" Diameter Jobber Length Drill & Extended Colbalt Drill

- 90 SFM (cobalt)
- 0.004 IPR (cobalt)
- Cycle time = 109.54 seconds
- Tool life = 447 inches

Allied Machine Solution

ASC 320®

- 200 SFM
- 0.010 IPR
- Cycle time = 18.43 seconds
- Tool life = 484 inches

